



Certificate of Analysis

ICP/MS Calibration Standard #1

Catalog Number: IMS-101

Lot Number: 0006535339

Lot Issue Date: 04/30/2020

Expiration Date: 05/31/2024

This Reference Material (RM) was manufactured and verified in accordance with Agilent's ISO 9001 registered quality system. The analyte concentration(s) were prepared and verified by an ISO 17034 / ISO 17025 accredited laboratory, and compared to calibration standards independently prepared using NIST SRM(s). The certified value and uncertainty value at the 95% confidence level for each analyte is determined gravimetrically.

Analyte	True Value		Analytical	NIST
cerium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3110
dysprosium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3115a
erbium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3116a
europium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3117a
gadolinium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3118a
holmium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3123a
lanthanum	10.0	± 0.1 µg/mL	ICP / ICP-OES	3127a
lutetium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3130a
neodymium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3135a
praseodymium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3142a
samarium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3147a
scandium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3148a
terbium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3157a
thorium	10.0	± 0.1 µg/mL	ICP / ICP-OES	2 nd source
thulium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3160a
ytterbium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3166a
yttrium	10.0	± 0.1 µg/mL	ICP / ICP-OES	3167a

Matrix: 5% nitric acid in low TOC water (< 50 ppb)

Agilent uses purified acids, 18 megohm double deionized water, calibrated Class A glassware & meticulously cleaned bottles in the manufacturing of these standards. Balances used in the manufacturing of this standard are calibrated with weights traceable to NIST in compliance with ANSI/NCCL Z-540-1 and ISO 9001.


Monica Bourgeois
QMS Representative



ISO 17034 Cert No.
AR-1936

Produced in accordance with TUV USA Inc 56 100 18560026
registered ISO 9001 Quality Management System



ISO 17025 Cert No.
AT-1937